



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/735,154	12/11/2003	David (Tso-Chin) Ko		1560
25859	7590	10/06/2005	EXAMINER	
WEI TE CHUNG FOXCONN INTERNATIONAL, INC. 1650 MEMOREX DRIVE SANTA CLARA, CA 95050				LEON, EDWIN A
			ART UNIT	PAPER NUMBER
			2833	

DATE MAILED: 10/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/735,154	KO, DAVID (TSO-CHIN)
Examiner	Art Unit	
Edwin A. León	2833	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 18 July 2005.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-20 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-19 is/are rejected.

7) Claim(s) 20 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____.

DETAILED ACTION

Response to Amendment

1. Applicant's amendment filed July 18, 2005 in which Claim 1 has been amended, has been placed of record in the file.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Yang et al. (U.S. Patent No. 6,077,115). With regard to Claim 1, Yang et al. discloses an electrical connector (1) for mating with a module (9) and a complementary connector (Column 2, Lines 36-39), comprising an insulative housing (2) defining a front (21) and a rear mating (between and below 23) ports respectively for receiving the complementary connector and the module; and a plurality of contacts (3) received in the insulative

housing, each of the contacts comprising a first contact portion (front part of 3) exposed to the front mating port and a second contact portion (32) exposed to the rear mating port. See Figs. 1-5.

With regard to Claim 2, Yang et al. discloses the first contact portions of the contacts are arranged in a first mating plane (Fig. 5) which is lower than a second mating plane (Fig. 5) in which the second contact portions are arranged. See Figs. 1-5.

With regard to Claim 3, Yang et al. discloses the insulative housing comprises a first housing (4) defining a cavity (inside 41) on a rear side thereof, and a second housing (21) received in the cavity of the first housing. See Figs. 1-5.

With regard to Claim 4, Yang et al. discloses the first housing defines a pair of slots (inside 41) communicating with the cavity, and therein the second housing is formed with a pair of guiding portions (211) received in the slots of the first housing. See Figs. 1-5.

With regard to Claim 5, Yang et al. discloses each of the contacts comprises a first (top part of 3) and a second (bottom part of 3) retention portions fitted in the first and the second housings, respectively. See Figs. 1-5.

With regard to Claim 6, Yang et al. discloses the contacts are firstly assembled into the second housing, and then assembled to the first housing. See Fig. 2.

With regard to Claim 7, Yang et al. discloses each contact comprises a protrusion (distal front end of 3) facilitating insertion of the contact into the second housing. See Figs. 1-5.

With regard to Claim 8, Yang et al. discloses a shield member (4, 5) surrounding the insulative housing and comprising a pair of solder portions (511b) extending from opposite ends thereof adapted for soldering to a printed circuit board (9) on which the electrical connector is mounted. See Figs. 1-5.

With regard to Claim 9, Yang et al. discloses the shield member comprises a plurality of sprint tabs (516a) extending into the front mating port. See Figs. 1-5.

4. Claims 10-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Ko (U.S. Patent No. 6,648,668). With regard to Claim 10, Ko discloses an electrical connector assembly, comprising: a first connector (3, 21) comprising an insulative housing (21) defining a plurality of first passageways (210) and a plurality of second passageways (214) in alignment with the first passageways; and a plurality of contacts (22) received in the insulative housing, each of the contacts comprising a first contact portion (224) arranged in one of the first passageways and a second contact portion (226) arranged in one of the second passageways; and a second connector (1) comprising: a housing (1); a plurality of terminals (234) received in the housing; a pair of latches (4) assembled to the housing to be interlocked to the insulative housing of the first connector. See Figs. 1-3.

With regard to Claim 11, Ko discloses the first connector defines a pair of latch holes (Fig. 7) engaged with the latches of the second connector. See Figs. 1-3.

5. Claims 12-16 are rejected under 35 U.S.C. 102(e) as being anticipated by Ko (U.S. Patent No. 6,619,985). With regard to Claim 12, Ko discloses an electrical connector comprising an insulative first housing (40) defining two opposite mating ends; a plurality of contacts (22) disposed in the housing, a metallic first shell (10) covering at least a portion of the first housing, and a metallic second shell (30) being positionable to the first shell and covering at least another portion (412, 416) of the first housing; wherein the first shell contributorily defines a first mating port (15) at one mating end (13), and the second shell contributorily defines a second mating port (formed from 421 to 412, 416) at the other mating end (end of 40), the first mating port and the second mating port being dimensionally different from each other. See Figs. 1-3.

With regard to Claim 13, Ko discloses a cavity (where 412 and 416 are located) is formed around one mating end, and the first shell covers the first housing except the cavity while the second shell covers the cavity complementarily. See Figs. 1-3.

With regard to Claim 14, Ko discloses an insulative second housing (20) disposed in the cavity corresponding to the second shell. See Figs. 1-3.

With regard to Claim 15, Ko discloses the first shell cooperates with the first housing to define the first mating port, and the second shell cooperates with the second housing to define the second mating port. See Figs. 1-3.

With regard to Claim 16, Ko discloses the first mating port is thinner than the second mating port. See Figs. 1-3.

6. Claims 17-19 are rejected under 35 U.S.C. 102(b) as being anticipated by Chiou et al. (U.S. Patent No. 6,193,552). With regard to Claim 17, Chiou et al. discloses an electrical connector assembly comprising: an elongated insulative housing (1) defining a mating face (where 5 is located) with opposite top (top of 1) and bottom (bottom of 1) faces by two vertical (sides of 1) sides thereof, a mating opening (131) being formed in the mating face and defining a mating direction thereof, a one-piece metallic shell (3) including spaced opposite top (302) and bottom (304) walls at least partially covering the top and bottom faces, respectively, a pair of connection portions (where 32 is located) located on the mating face by two sides of the mating opening, and a pair of side plates (32) respectively extending from the corresponding connection portions; wherein each of the side plates defines a locking structure (32) thereon. See Figs. 1-3.

With regard to Claim 18, Chiou et al. discloses the shell (3) forms two opposite end portions (301, 303) at two opposite lengthwise ends thereof, the end portions protectively covering the corresponding side plates in a lengthwise direction, respectively. See Figs. 1-3.

With regard to Claim 19, Chiou et al. discloses a passage (131) is formed between each of the end portions and the corresponding side plate so as to receive therein a guiding post (20) and a moveable latch (41) of a complementary connector (4). See Figs. 1-3.

Allowable Subject Matter

7. Claim 20 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims for the reasons stated in the Office Action of April 18, 2005.

Response to Arguments

8. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

9. Applicant's arguments filed July 18, 2005 have been fully considered but they are not persuasive. In response to Applicant's arguments regarding Claim 10 that the Ko reference doesn't show a first and second connector and a pair of latches assembled to the housing to be interlocked to the insulative housing of the first connector, Applicant's attention is directed to Fig. 6, in which Ko clearly shows a first (3, 21) and second (1) connector and a pair of latches (4) assembled to the housing to be interlocked to the insulative housing of the first connector. Applicant is reminded that parts (3, 21) and (1) can be considered as being connectors. Furthermore, the pair of latches (4) interlock

the connectors and the mating connectors. It is the Examiner's opinion that the Ko reference meets the claim limitations in their broadest interpretation.

In response to Applicant's arguments regarding Claim 12 that the Ko reference doesn't show two metallic shells, Applicant's attention is directed to Fig. 2 in which Ko clearly discloses a metallic first shell (10) covering at least a portion of the first housing, and a metallic second shell (30) being positionable to the first shell and covering at least another portion (412, 416) of the first housing. Specifically, shell (10) covers an internal part of the housing (40) when received inside the housing. Therefore, it is the Examiner's opinion that the Ko reference meets the claim limitations in their broadest interpretation.

In response to Applicant's arguments regarding Claim 17 that the Chiou et al. reference doesn't show a pair of connection portions located on the mating face by two sides of the mating opening, and a pair of side plates respectively extending from the corresponding connection portions; wherein each of the side plates defines a locking structure thereon, Applicant's attention is directed to Fig. 1 in which Chiou et al. clearly discloses a pair of connection portions (where 32 is located) located on the mating face by two sides of the mating opening, and a pair of side plates (32) respectively extending from the corresponding connection portions; wherein each of the side plates defines a locking structure (32) thereon. Applicant is reminded that plates 32 are located in two walls that go from the mating opening to the back of the connector. It is the Examiner's opinion that these two walls can be considered as connection portions. Therefore, it is

the Examiner's opinion that the Chiou et al. reference meets the claim limitations in their broadest interpretation.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

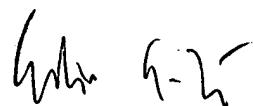
A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edwin A. León whose telephone number is (571) 272-2008. The examiner can normally be reached on Monday - Friday 10:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571-272-2800, extension 33. The fax

phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Edwin A. Leon
AU 2833



TRUCT. NGUYEN
PRIMARY EXAMINER

EAL
September 23, 2005